	Application No.	Applicant(s)
Notice of Allowability	09/843,901	SHELL ET AL.
	Examiner	Art Unit
	Matthew T. Henning	2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *the communication dated 9/5/2006*.

2. ☒ The allowed claim(s) is/are *1,3-5,8-13 and 15-17*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Ryan T. Grace (Reg. No. 52,956) on 11/20/2006.

The application has been amended as follows beginning on the following page:

1. (Currently amended) A computer-implemented method for maintaining configuration information on a mobile device, comprising:

receiving a message, wherein the message identifies the source of the message and changes to settings of the mobile device;

identifying, by a push router of the mobile device, the source of the received message, wherein the push router ~~associates~~ assigns a security role ~~with~~ to the received message based on the identified source of the received message and inserts an identifier into the received message to identify the ~~associated~~ assigned security role;

passing the message to a configuration manager;

parsing, by the configuration manager, the message to identify at least one configuration service provider, among a plurality of configuration service providers, responsible for the settings identified in the message;

determining whether the assigned security role of the message, assigned by the push router, is sufficient to invoke the identified configuration service provider;

failing the transaction when the assigned security role of the message is not sufficient;

passing the message to the configuration service provider when the assigned security role of the message is sufficient, wherein the identified configuration security provider determines whether the assigned security role of the message is sufficient for settings associated with the configuration service provider;

failing the transaction when the assigned security role of the message is insufficient for the settings; and

performing the changes to the settings of the mobile device when the configuration service provider determines that the security role of the message is sufficient.

2. (Cancelled)

3. (Previously presented) The computer-implemented method of claim 1, wherein the source of the message is identified from authentication and decryption of the received message.

4.   (Previously presented) The computer-implemented method of claim 1, wherein the message includes a shared key that identifies the source of the message.

5.   (Previously presented) The computer-implemented method of claim 1, wherein determining whether the assigned security role of the message, assigned by the push router, is sufficient to invoke the identified configuration service provider further comprises comparing the assigned security role of the message to an assigned security role of the configuration service provider.

6-7.   (Cancelled)

8.   (Currently amended) A computer-readable storage medium having computer-executable components for managing security on a mobile device, comprising:

        a stored setting having an assigned security role that identifies a privilege that an entity attempting to access the stored setting must satisfy in order to access the stored setting;

        a router, of the mobile device, configured to receive a configuration message over a wireless communication link, the router being further configured to identify a source of the configuration message and insert a security role identifier into the received configuration message based on the identified source, the router being further configured to pass the configuration message to other components of the mobile device, the configuration message including an instruction that affects a configuration setting;

        a configuration manager, of the mobile device, configured to receive the configuration message from the router and to parse the configuration message to identify a configuration service provider, of the mobile device, responsible for the instruction, wherein the configuration manager passes the configuration message to the configuration service provider when the assigned security role of the configuration message provides a privilege to access the configuration service provider; and

        the configuration service provider being configured to receive the configuration message from the configuration manager, determine whether the assigned security role of the configuration message has sufficient privilege to access the stored setting[s], and execute the instructions when the configuration service provider determines that the assigned security role has sufficient privilege to access the stored setting.

9.   (Currently amended) The computer-readable storage medium of claim 8, wherein the configuration service provider is configured to manage at least one configuration setting

stored on the mobile device, and wherein the processing of the instruction is performed by the configuration service provider.

10.   (Currently amended) The computer-readable storage medium of claim 9, wherein the configuration service provider has an assigned security role that identifies a privilege that must be associated with an instruction that affects a configuration setting which the configuration service provider maintains.

11.   (Currently amended) The computer-readable storage medium of claim 10, wherein the configuration manager is further configured to determine if the instruction that affects the configuration setting is in agreement with the security role assigned to the configuration service provider that maintains the affected configuration setting, and if so, the configuration manager is further configured to pass the instruction to the configuration service provider to be handled.

12.   (Currently amended) The computer-readable storage medium of claim 11, wherein the configuration service provider determines if the instruction is in agreement with the security role assigned to the stored setting prior to processing the instruction, and if not, terminating the processing of the instruction.

13.   (Currently amended) A computer-readable storage medium having computer-executable instructions for maintaining configuration information on a mobile device, comprising:

receiving a configuration message, wherein the configuration message includes a header field that identifies a source and an instruction field that identifies a configuration setting on the mobile device;

identifying, by a push router of the mobile device, the source of the received configuration message from the header field, wherein the push router inserts a security role identifier into a security role field of the received configuration message, wherein the security role is based on the identified source of the received configuration message;

passing the configuration message to a configuration manager of the mobile device;

parsing, by the configuration manager, the configuration message to identify at least one configuration service provider <u>of the mobile device</u>, among a plurality of configuration service providers, responsible for the setting identified in the configuration message;

determining whether the inserted security role identifier of the configuration message, assigned by the push router, is sufficient to invoke the identified configuration service provider;

failing the transaction when the inserted security role identifier of the configuration message is not sufficient;

passing the message to the configuration service provider when the inserted security role identifier of the configuration message is sufficient, wherein the identified configuration security provider determines whether the inserted security role identifier of the configuration message is sufficient for the setting associated with the configuration service provider;

failing the transaction when the inserted security role identifier of the configuration message is insufficient for the setting; and

performing the changes to the setting of the mobile device when the configuration service provider determines that the inserted security role identifier of the configuration message is sufficient.

14.   (Cancelled)

15.   (Currently amended) The computer-readable <u>storage</u> medium of claim 13, wherein the source of the message is identified from authentication and decryption of the received message.

16.   (Currently amended) The computer-readable <u>storage</u> medium of claim 13, wherein the configuration message includes a shared key that identifies the source of the configuration message.

17.   (Currently amended) The computer-readable <u>storage</u> medium of claim 13, wherein determining whether the inserted security role identifier of the configuration message, assigned by the push router, is sufficient to invoke the identified configuration service provider further comprises comparing the inserted security role identifier of the configuration message to an assigned security role of the configuration service provider.

18-28 (Cancelled)

The following is an examiner's statement of reasons for allowance: The closest prior art,

Patent Number 6,148,342 to Ho, disclosed a similar method for accessing data wherein a request

was received, a sender was identified and a security role was inserted in the request based on the

identified sender, passing the request on to another device which analyzed the request and the

security role in order to determine if the request could be permitted, and if so passed the message

on to a final device which again determined if access would be permitted based on the request

and the security role and if so would process the request. However, Ho disclosed this method in

a multiple device system and the examiner has found no motivation to incorporate such a method

into a single mobile device for altering configuration information of the mobile device.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew T. Henning whose telephone number is (571) 272-3790.

The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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11/21/2006

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